

Figure 1

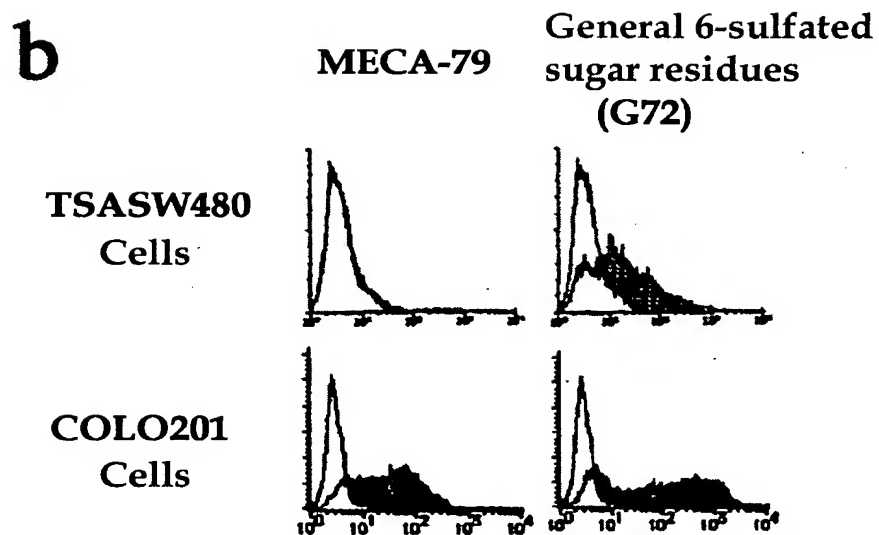
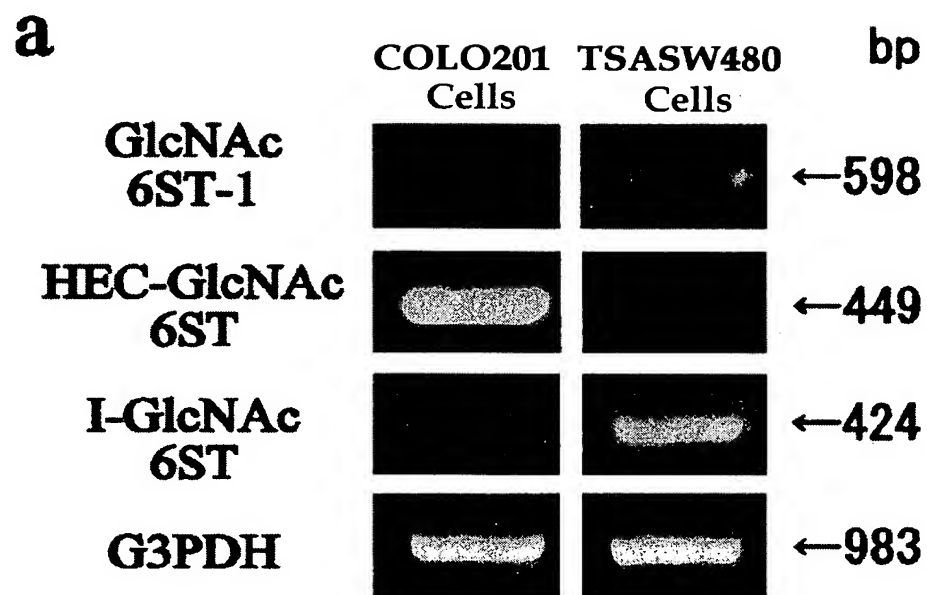


Figure 2

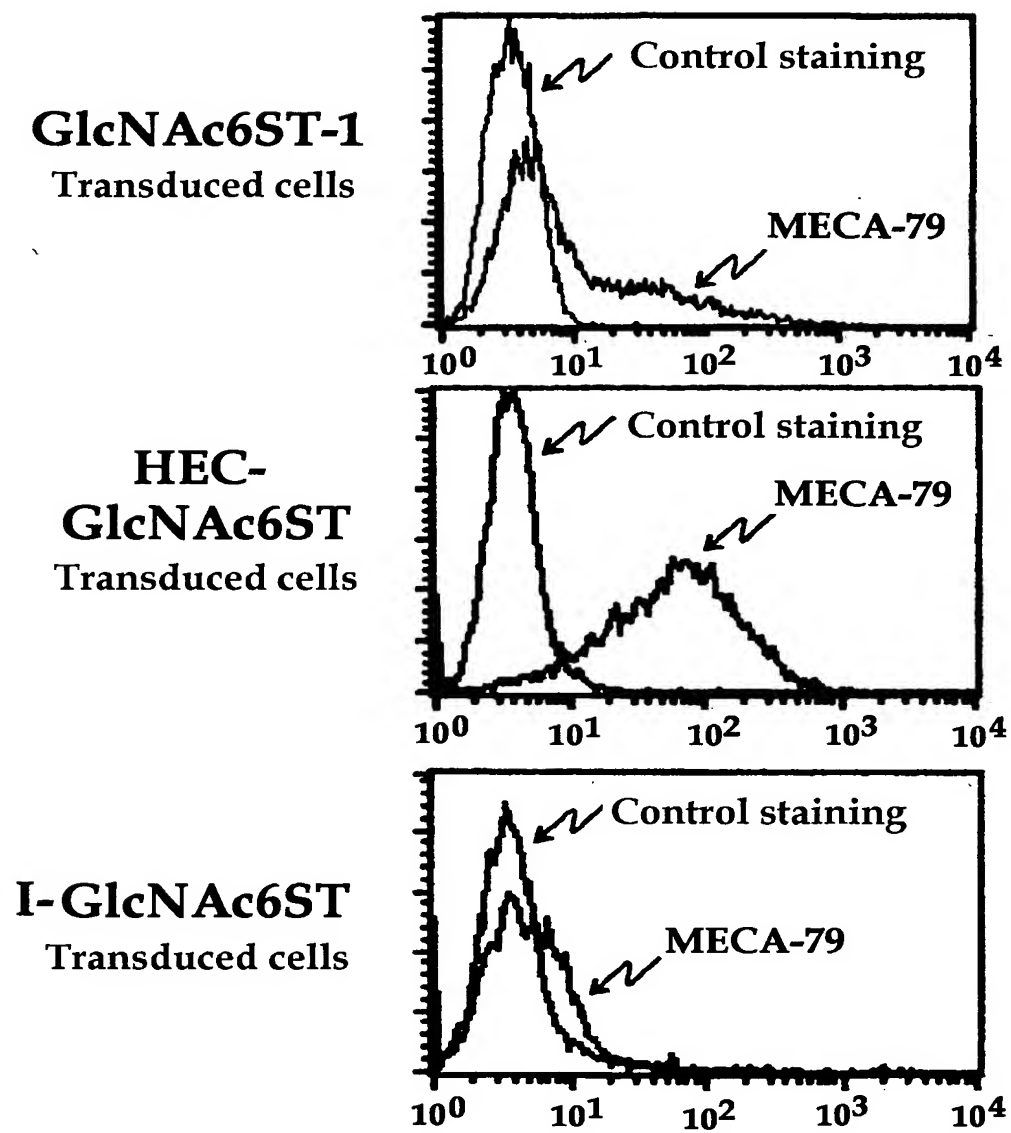


Figure 3

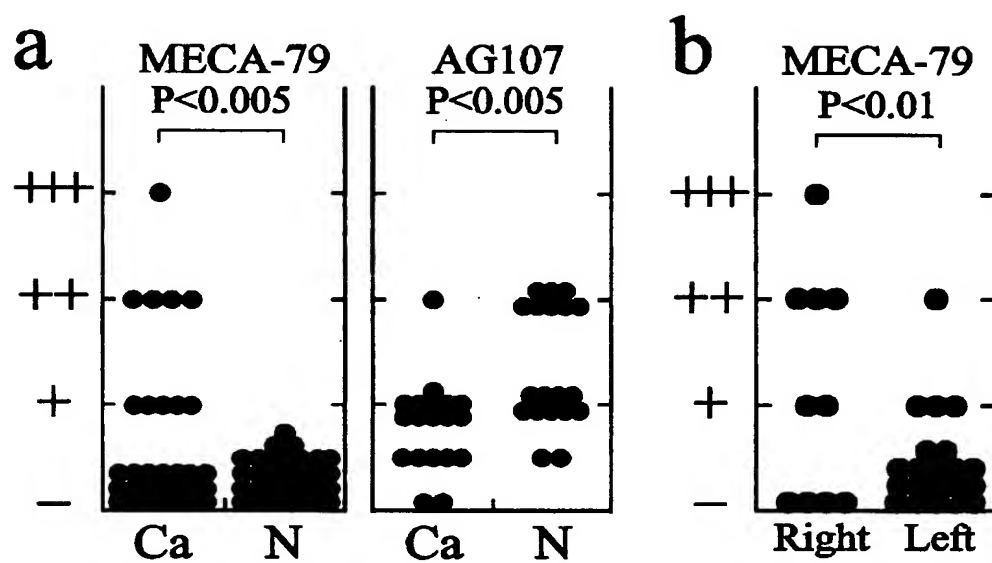


Figure 4

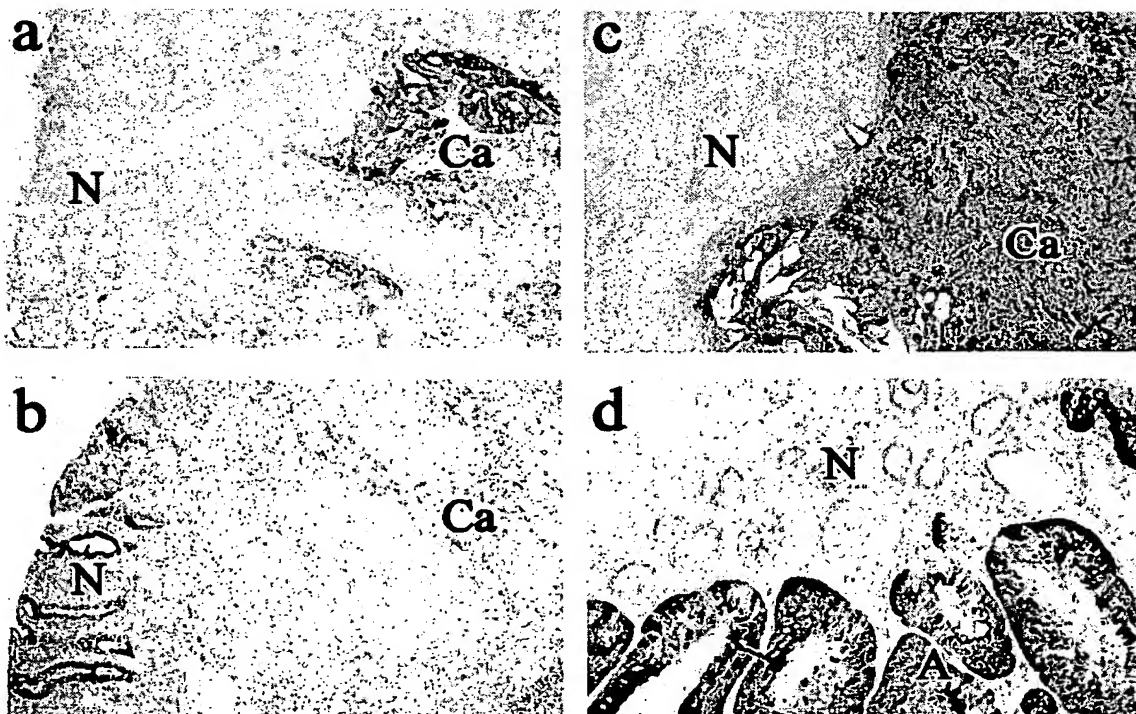
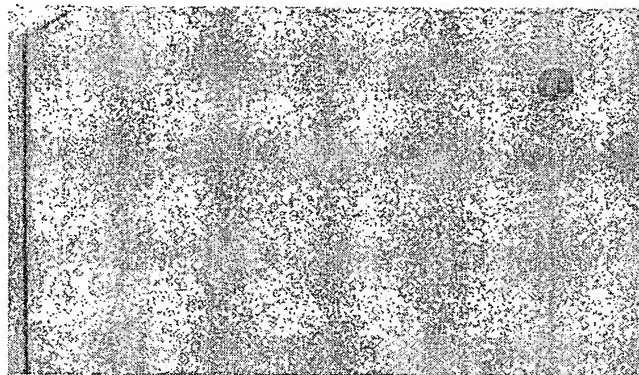


Figure 5**Samples**

No. 1 2 3 4 5 6 7 8



← Colorectal Cancers (8 cases)

← Colorectal Adenomas
(8 cases)

← Benign Colorectal
Disorders (8 cases)

← Normal Healthy Subjects
(8 cases)

Figure 6

BD PharMingen Technical Data Sheet

Page 1 of 2

PURIFIED RAT ANTI-MOUSE PNAd CARBOHYDRATE EPITOPE (CD62L Ligand) MONOCLONAL ANTIBODY**PRODUCT INFORMATION**

Catalog Number: **553863** (Was: 09961D), 0.5 mg
 Description: Purified anti-mouse PNAd Carbohydrate Epitope (CD62L Ligand)
 Clone: MECA-79
 Immunogen: Collagenase-dispersed BALB/c lymph node stroma¹
 Isotype: Rat (Wistar) IgM, κ
 Contents: Purified immunoglobulin in 10 mM phosphate buffer, pH 7.2 with 500 mM NaCl and 0.09% (w/v) sodium azide.

SPECIFICITY

The MECA-79 antibody reacts with sulfate-dependent carbohydrate epitopes of peripheral lymph node addressin (PNAd).² The MECA-79-reactive antigen is closely associated with the carbohydrate ligands for L-selectin (e.g., CD34, GlyCAM-1, MadCAM-1), which are expressed on high endothelial venules (HEV) in lymphoid tissues and at sites of chronic inflammation.^{1,2,3,4,5,6} Cross-reactivity with human,^{3,4} ovine,⁷ bovine,⁷ primate,⁷ and porcine⁸ tissues has been observed. MECA-79 antibody inhibits L-selectin-dependent lymphocyte and platelet homing to lymph nodes *in vivo*.⁹ and *in vitro* adhesion to lymphoid tissue HEV^{1,4} and immobilized PNAd.^{3,9,10}

PREPARATION AND STORAGE

The antibody was purified from tissue culture supernatant by affinity chromatography. The antibody solution should be stored undiluted at 4°C.

USAGE

This antibody has been tested by immunohistochemical staining (IHC) of citrate-pretreated formalin-fixed paraffin-embedded sections (5 - 20 μ g/ml) to assure specificity and reactivity. Other reported applications include IHC of acetone-fixed frozen sections,^{1,4,5} immunoprecipitation,^{2,3} western blot analysis,¹⁰ and *in vitro* and *in vivo* adhesion blocking.^{1,3,4,9,10} Since applications vary, each investigator must determine dilutions appropriate for individual use.

Caution: Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE™ (No Azide/Low Endotoxin) antibody format for *in vitro* and *in vivo* use.

REFERENCES

1. Streeter, P.R., B.T.N. Rouse, and E.C. Butcher. 1988. Immunohistologic and functional characterization of a vascular addressin involved in lymphocyte homing into peripheral lymph nodes. *J. Cell Biol.* 107: 1853 - 1862.
2. Hemmerich, S., E.C. Butcher, and S.D. Rosen. 1994. Sulfation-dependent recognition of high endothelial venules (HEV)-ligands by L-selectin and MECA 79, an adhesion-blocking monoclonal antibody. *J. Exp. Med.* 180: 2219 - 2226.
3. Berg, E.L., M.K. Robinson, R.A. Warnock, and E.C. Butcher. 1991. The human peripheral lymph node vascular addressin is a ligand for LECAM-1, the peripheral lymph node homing receptor. *J. Cell Biol.* 114: 343 - 349.
4. Michie, S.A., P.R. Streeter, P.A. Bolt, E.C. Butcher, and L.J. Picker. 1993. The human peripheral lymph node vascular addressin. An inducible endothelial antigen involved in lymphocyte homing. *Am. J. Pathol.* 143: 1688 - 1698.
5. Faveeuw, C., M.-C. Gagnerault, and F. Lepault. 1994. Expression of homing and adhesion molecules in infiltrated islets of Langerhans and salivary glands of nonobese diabetic mice. *J. Immunol.* 152: 5969 - 5978.

Please see Page 2.

BD Biosciences www.bdbiosciences.com

Biometric Imaging
Contech

Asia Pacific
Tel (65) 8610 633
Fax (65) 8601 590

Brazil
Tel (55) 11 5185 9833
Fax (55) 11 5185 9834

Canada
Tel (888) 256 0187
Fax (905) 542 8391
canada@bdb.com

Immunocytometry Systems
Labware

Europe
BD Biosciences
Tel (32) 53 720 211
Fax (32) 53 720 450

Europe
Life Science Research
Tel (49) 6221 305 521
Fax (49) 6221 305 531

Japan
Tel (81) 3 5413 8251
Fax (81) 3 5413 8155

Transduction Laboratories
PharMingen

Mexico
Tel (525) 237 1200
Fax (525) 237 1228

United States
Tel 877.232.8995
Fax 858.612.8888



553863-06001D TDS
Rev. 004 6/00

Figure 7

REFERENCES (Continued)

6. Maly, P., A.D. Thall, B. Petryniak, C.E. Rogers, P.L. Smith, R.M. Marks, R.J. Kelly, K.M. Gersten, G. Cheng, T.L. Saunders, S.A. Camper, R.T. Camphausen, F.X. Sullivan, Y. Isogai, O. Hindsgaul, U.H. von Andrian, and J.B. Lowe. 1996. The $\alpha(1,3)$ fucosyltransferase Fuc-TVII controls leukocyte trafficking through an essential role in L-, E-, and P-selectin ligand biosynthesis. *Cell* 86: 643 - 653.
7. Butcher, E.C. Personal communication.
8. Binns, R.M., A. Whyte, S.T. Licence, A.A. Harrison, Y.T.M. Tsang, D.O. Haskard, and M.K. Robinson. 1996. The role of E-selectin in lymphocyte and polymorphonuclear cell recruitment into cutaneous delayed hypersensitivity reactions in sensitized pigs. *J. Immunol.* 157: 4094 - 4099.
9. Diacovo, T.C., K.D. Puri, R.A. Warnock, T.A. Springer, and U.H. von Andrian. 1996. Platelet-mediated lymphocyte delivery to high endothelial venules. *Science* 273: 252 - 255.
10. Puri, K.D., E.B. Finger, G. Gaudernack, and T.A. Springer. 1995. Sialomucin CD34 is the major L-selectin ligand in human tonsil high endothelial venules. *J. Cell Biol.* 131: 261 - 270.

For Research Use Only. Not For Diagnostic or Therapeutic Use.

Conditions: BD PharMingen will not be responsible for violations or patent infringements which may occur with the use of our products.

Hazardous Ingredient: Sodium Azide. Avoid exposure to skin and eyes, ingestion, and contact with heat, acids, and metals. Wash exposed skin with soap and water. Flush eyes with water. Dilute with running water before discharge into plumbing.

BD Biosciences www.bdbiosciences.com

Biometric Imaging Clontech		Immunocytometry Systems Labware		Transduction Laboratories PharMingen	
Asia Pacific Tel (65) 9610 633 Fax (65) 9601 590	Brazil Tel (55) 11 5185 9833 Fax (55) 11 5185 9834	Canada Tel (888) 259-0187 Fax 905.542.9391 canada@bdb.com	Europe BD Biosciences Tel (32) 53 720 211 Fax (32) 53 720 450	Europe Life Science Research Tel (49) 6221 305 521 Fax (49) 6221 305 531	Japan Tel (81) 3 5413 8251 Fax (81) 3 5413 8155
				Mexico Tel (525) 237 1200 Fax (525) 237 1288	United States Tel 877.232.8995 Fax 858.812.8888



553863-0806 (D-TLS)
Rev. 004 8/00